

# Development within the Military Health System

Saving Lives, Improving  
Readiness, and Advancing the  
Art and Science of Military  
Medicine



**MG James K. Gilman**  
**Commanding General,**  
**US Army Medical Research and Materiel Command**

*27 January 2011*



# Two Kinds of Military Medical Research

## How They Differ from Each Other

Criteria	Clinical Investigations	Requirements Driven
<b>Initiated by</b>	Investigator	Warfighter
<b>Supports</b>	Graduate Medical Education	Military Operations
<b>Scope</b>	Projects and Studies	Research Programs
<b>Funding</b>	DHP O&M (Program 8)	Service/DHP RDTE (Program 6)
<b>Location</b>	Medical Treatment Facilities	Service Labs (USAMRMC, NMRC, AFRL)
<b>Researchers</b>	Primarily Clinicians	Full-time Researchers
<b>Focus</b>	Academic	Applied - Provide a Capability

### **FUNDING ACRONYMS:**

**DHP** - Defense Health Program

**O&M** - Operations and Maintenance

**RDTE** - Research, Development, Testing, & Evaluation

### **SERVICE LAB ACRONYMS:**

**AFRL** - Air Force Research Lab

**NMRC** - Naval Medical Research Center

**USAMRMC** - US Army Medical Research and Materiel Command

**The Two Kinds of Military Medical Research are not Mutually Exclusive**



# HBO<sub>2</sub> mTBI Research Program

**USAF Phase II Study (n=50)**

**DARPA/VA/Navy Phase II Study (n=60)**

**HOPPS Phase II  
Study (n=96)**

**Symptom Survey  
Validation**

**FDA End  
of Phase  
II**

**DSM  
B**

**DSM  
B**

**Mechanism of Action Study (n=300)**

**Multicenter Pivotal Trial  
(n=300+) - in life until  
FY13**

**Long Term Follow-up Study (all)**



## ACRONYMS:

- **DARPA** - Defense Advanced Research Projects Agency
- **DSMB** - Data and Safety Monitoring Board
- **FDA** - US Food and Drug Administration
- **HOPPS** - Hyperbaric Oxygen for Persistent Post-Concussive Symptoms After Mild Traumatic Brain Injury - pilot feasibility study at the VA
- **USAF** - US Air Force
- **VA** - Veterans Administration

Apr 10

Jul 10

Oct 10

Jan 11

Apr 11

Jul 11

Oct 11

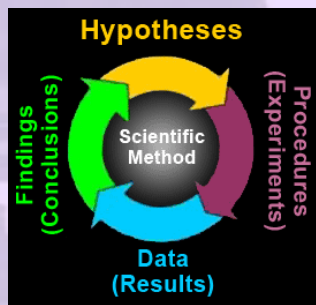
Jan 12





# Two Kinds of Military Medical Research

## How They are the Same



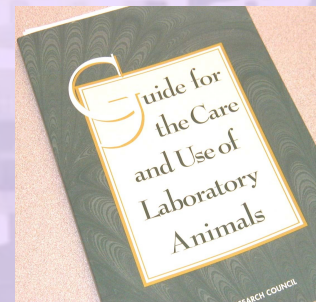
**Scientific Method**



**Ethical Principles**



**Protections for Human Subjects  
(Human Research Protections Office - HRPO)**



**Protections for Animal Subjects  
(Animal Care and Use Review Office - ACURO)**

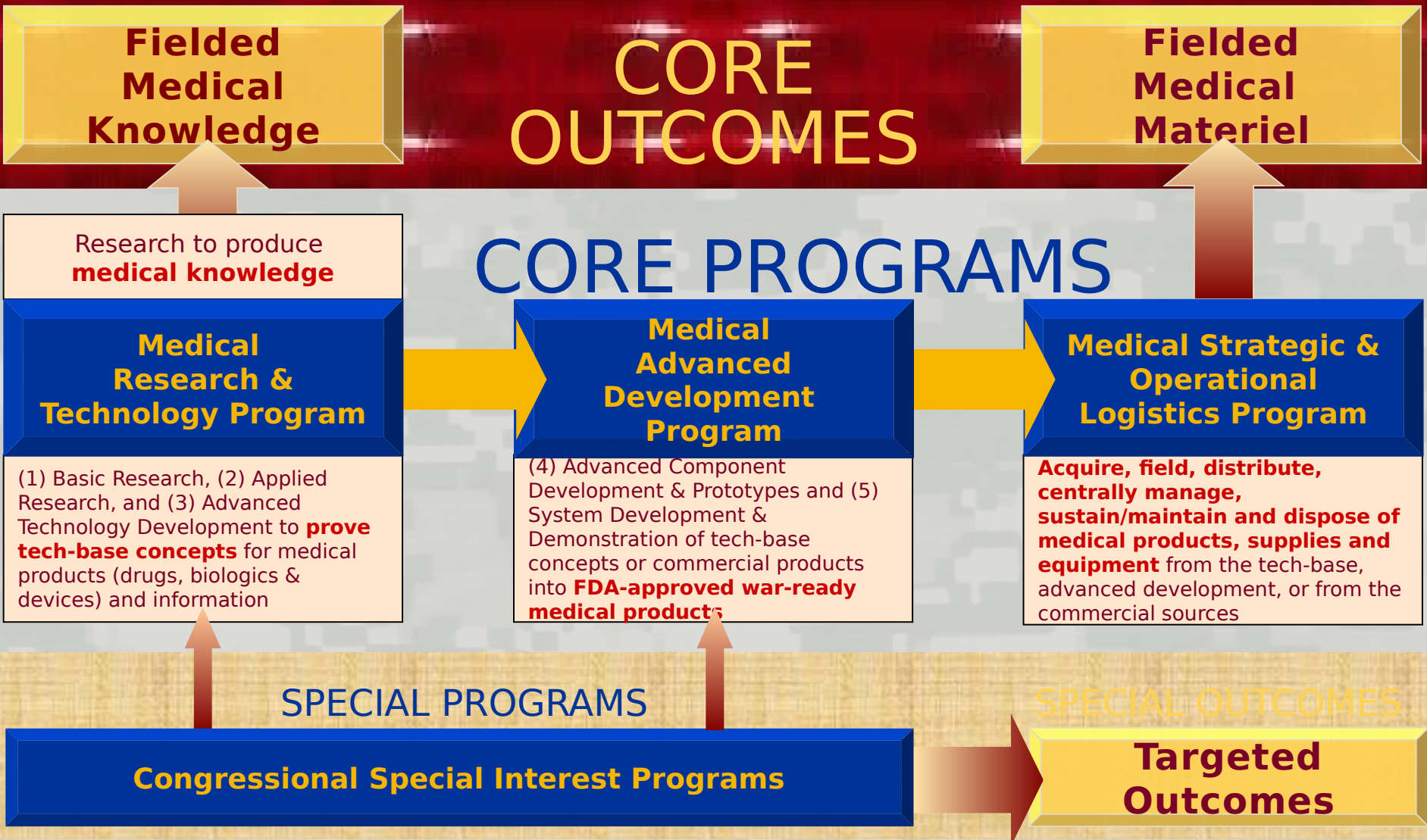


**Principles of Fiscal Stewardship**



# US Army Medical Research & Materiel Command

## Customer-Focused Programs & Outcomes





# SYMPOSIUM PRESENTATIONS

Service	Title	Speaker	Discussant
<b>Army</b>	Infections Complicating the Care of Combat Casualties during Operations Iraqi Freedom and Enduring Freedom	LTC Clinton Murray, MD	Edward Tramont, MD
<b>Navy</b>	Morphine Use After Combat Injury in Iraq and Post-Traumatic Stress Disorder	Troy Lisa Holbrook, PhD	CAPT Paul Hammer, MD
<b>Air Force</b>	Contactin 4 as an Autism Susceptibility Locus	Col Randall Zernzach, MD	Ron Miller, PhD
<b>TMA</b>	Differences in Prevalence, Treatment, and Outcomes of Asthma Among a Diverse Population of Children with Equal Access to Care	Thomas Williams, PhD	CAPT Peter Linz, MD





# DISCLAIMER



**The results and conclusions of the studies and research being presented represent the views of the researchers and discussants and do not necessarily represent official DoD or service policy.**



# Battlefield Health and Trauma Research Center, Fort Sam Houston, Texas

Ribbon cutting will be 4 February 2011



Battlefield Health & Trauma Research Center  
Gilbane Building Co. Project #4468  
Ft. Sam Houston, TX Date: October 30, 2010





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